WHAT IS CLAIMED IS

1. A single valve to close an active control circuit for the pressure of a volume, wherein it is composed of a seat (6) and an openwork semi-rigid membrane (2) with one or several openings (3) and which incorporates means to enable to successively adopt two stable positions.

2. A single valve to close an active control circuit for the pressure of a volume according to Claim 1, wherein the seat (6) and bistable membrane (2) are assembled such that the membrane (2) in its first stable position prevents the circulation of fluid and in its second stable position allows the circulation of fluid.

3. A single valve to close an active control circuit for the pressure of a volume according to Claim 2, wherein the bistable membrane (2) is openwork so as to create a difference in pressure on either side of the single valve (1) during the circulation of a fluid.

4. A single valve to close an active control circuit for the pressure of a volume according to Claim 3, wherein it is activated by a difference in pressure upstream and downstream of the single valve.

5. A single valve to close an active control circuit for the pressure of a volume according to Claim 4, wherein the bistable membrane (2) is made of a polymer.

6. A single valve to close an active control circuit for the pressure of a volume according to Claim 4, wherein the bistable membrane (2) is made by stamping a metal sheet.

7. A single valve to close an active control circuit for the pressure of a volume according to Claim 4, wherein the bistable membrane (2) is made by duplicate molding an elastomer onto a metallic core grid (4 and 5).

8. Application of the single valve to close an active control circuit for the pressure of a volume according to any one of the above Claims, wherein the single valve (1) is integrated into an inflation and deflation valve (10).